

Application Serial No. 10/666,674
Reply to Office Action of March 11, 2005

PATENT
Docket: CU-3362

Amendments To The Claims

The listing of claims presented below will replace all prior versions, and listings, of claims in the application.

Listing of claims:

1. (currently amended) A method for manufacturing an organic EL display by an ink jet method, comprising:

discharging at least a liquid organic EL material through a nozzle to a heated substrate hot enough to evaporate the liquid organic EL material discharged on the heated substrate and the liquid organic EL material present in the nozzle not yet discharged,

wherein the discharged organic EL material is forcibly dried immediately after the discharge from the nozzle by the heat of the heated substrate while preventing the discharged organic EL material from being air-dried through evaporation.

~~wherein an uniform organic EL layer is formed by a process of discharge placing from a nozzle, on a heated substrate, at least an organic EL material in the form of solution, and a process of drying the organic EL material in the form of ink, placed on the substrate, by heating immediately after being discharged.~~

2. (currently amended) The method for manufacturing an organic EL display according to Claim 1, wherein the organic EL material is discharged, on a heated substrate, while controlling the temperature of the organic EL material for discharge

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to a constant temperature by cooling with a cooling mechanism placed on the nozzle.

3. (original) The method for manufacturing an organic EL display according to Claim 1, wherein the organic EL material is uniformly formed at a plurality of pixel openings placed in the form of two-dimensional matrix on a substrate, while relatively moving the nozzle and the substrate.
4. (withdrawn) An apparatus for manufacturing an organic EL display, comprising: a heating temperature controlling mechanism on a stage supporting a substrate; a nozzle cooling temperature controlling mechanism; mechanism of discharge-placing, on a heated substrate, at least an organic EL material in the form of solution which is kept under constant temperature condition; and a mechanism of drying the organic EL material in the form of ink, placed on the substrate, by heating.
5. (withdrawn) The apparatus for manufacturing an organic EL display according to Claim 4, wherein the nozzle cooling temperature controlling mechanism is a chiller, a Peltier element, or a combination thereof.
6. (withdrawn) A method for manufacturing a color filter by an ink jet method, wherein a uniform coloring layer is formed by a process of discharge-placing, on a heated substrate, a dye material in the form of solution, and a process of drying the dye material in the form of ink, placed on the substrate, by heating.

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7. (withdrawn) The method for manufacturing a color filter according to Claim 6, wherein the dye material is discharged, on a heated substrate, while controlling to a constant temperature by cooling.
8. (withdrawn) The method for manufacturing a color filter according to Claim 6, wherein the dye material is uniformly formed at a plurality of pixel openings placed in the form of two-dimensional matrix on a substrate, while relatively moving the nozzle and the substrate.
9. (withdrawn) An apparatus for manufacturing a color filter comprising: a heating temperature controlling mechanism on a stage supporting a substrate; a nozzle cooling temperature controlling mechanism; mechanism of discharge-placing, on a heated substrate, at least a dye material in the form of solution which is kept under constant temperature condition; and a mechanism of drying the dye material in the form of ink, placed on the substrate, by heating.
10. (withdrawn) The apparatus for manufacturing a color filter according to Claim 9, wherein the nozzle cooling temperature controlling mechanism is a chiller, Peltier element, or a combination thereof, surrounding the nozzle.
11. (withdrawn) An electronic device using an organic EL display, as a display, manufactured by the manufacturing method according to Claim 1.

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12. (withdrawn) An electronic device using an organic EL display, as a display, manufactured by the manufacturing apparatus according to Claim 4.
13. (withdrawn) An electronic device using an organic EL display or liquid crystal display, as a display, using a color filter manufactured by the manufacturing method according to Claim 6.
14. (withdrawn) An electronic device using an organic EL display or liquid crystal display, as a display, using a color filter manufactured by the manufacturing apparatus according to Claim 9.
15. (previously presented) The method for manufacturing an organic EL display according to Claim 2, wherein the organic EL material is uniformly formed at a plurality of pixel openings placed in the form of two-dimensional matrix on a substrate, while relatively moving the nozzle and the substrate.